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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: I. Reid

Application No.: 10/016,371

Art Unit: 1617

Filed: December 10, 2001

Examiner: S. Jiang

Title: A METHOD OF ADMINISTERING
CALCIUM CITRATE

1.132 DECLARATION OF IAN R. REID

1. I, Ian R. Reid, do hereby declare and state the following:
2. I am a medical doctor, having earned my medical degree in 1978 from the University of Auckland (New Zealand). I have been active in the area of calcium research for 25 years. My curriculum vitae is attached.
3. I am the inventor of, and have read the above-captioned patent application, as well as the Examiner's Actions and responses.
4. U.S. Patent 4,851,221 of Pak et al. ("Pak") is cited by the Examiner in this case. The Pak patent does not discuss the use of calcium citrate supplementation for increasing HDL levels in plasma in a postmenopausal woman or for increasing the ratio of HDL to LDL in a postmenopausal woman. The Pak patent is not concerned with same problems that are addressed in the present application.
5. The article of Mitchell et al., "Effect of Oral Calcium on Cholesterol Metabolism", *J. Atheroscler. Res.*, 1968, 8: 913-922, ("Mitchell") was also cited by the examiner. Mitchell is concerned with cholesterol and triglyceride levels and the effect of calcium supplementation thereon. However, the data presented in the Mitchell article is for supplementation using calcium glycerophosphate and calcium gluconolactogluconate. Data is not provided for calcium citrate. Importantly, Mitchell concludes that any benefit on cholesterol and triglyceride levels from supplementation with calcium glycerophosphate and calcium gluconolactogluconate

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is minor at best. In the abstract, the authors note that "[t]he serum cholesterol and triglyceride levels showed little change from basal levels during calcium supplementation periods." Also, at page 921, at the beginning of the third full paragraph, Mitchell notes, "[t]he changes in serum cholesterol and triglyceride levels were not significant." Thus, not only did Mitchell use a different calcium salt than that used in the pending application, Mitchell saw no significant benefits on serum cholesterol and triglyceride levels. Mitchell et al did not assess HDL and LDL levels in their subjects, and it is changes in these components of serum cholesterol which are the subject of the claims in the present patent application.

6. The Nutrition Reviews article entitled "Calcium and Serum Cholesterol", *Nut. Rev.*, 1967, 25: 298-300, ("Nutrition Reviews") is also cited by the examiner. Nutrition Reviews is concerned with serum cholesterol levels and the effect of calcium supplementation thereon. Nutrition Reviews notes that any positive effects of calcium supplementation on serum cholesterol are not maintained for longer than three to four weeks. The abstract of Nutrition Reviews notes that:

A hypocholesteremic effect of oral calcium, supplements seems to occur only in subjects with raised serum cholesterol. There is no evidence that this effect is maintained for longer than three to four weeks, and there seems to be no justification for using oral calcium as a means for reducing serum cholesterol levels.

In the final paragraph at page 300, Nutrition Reviews states:

The exact mechanism of the hypocholesteremic effect of calcium is unclear. Oral calcium supplements result in an increase in fecal fat excretion and excretion of fatty acids as calcium soaps, and may interfere with absorption of cholesterol. The available evidence suggests that the cholesterol lowering effect of calcium supplements occurs only in subjects with a raised serum cholesterol and there is no proof that this effect is more than transient. On the evidence available, bearing in mind the risks of a prolonged high dosage calcium ingestion, there seems to be no justification for recommending oral calcium supplements as a means of reducing serum cholesterol.

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7. Clearly, Nutrition Reviews instructs that calcium supplementation is not effective as a means of reducing serum cholesterol, and it does not address effects of calcium on LDL and HDL sub-fractions of cholesterol.
8. Despite what is taught in the above-referenced patent and journal articles, I have found that calcium citrate supplementation is useful in decreasing serum LDL levels, increasing serum HDL levels, and improving the HDL/LDL ratio.
9. In the original application, data was presented showing a 7.3% increase in HDL, a 7.8% decrease in LDL, a decrease in total cholesterol of 3.7%, and an increase of 17.7 % in HDL/LDL ratio over a twelve month period (see specification at page 18-19, paragraph [0072]. Also in the original application, Figures 1A, 1B, and 2B provide data to 12 months of supplementation with calcium citrate. We now have results indicating that this improvement is maintained at least until 4 years. This data is appended to this declaration. This data clearly represents unexpected results in view of the cited prior art, which discusses only modest improvements in serum cholesterol at best, and further the benefits described in the prior art are described therein as very short-term relative to both the results described in the application and further supported by the data provided currently.
10. This new data further supports what is already supported in the original application; i.e., that calcium citrate supplementation has a significant effect on serum cholesterol. This new four-year data is clearly contrary to the teachings of Nutrition Reviews, insofar as calcium supplementation is concerned. It is also contrary to the teachings of Mitchell which show little change in the serum cholesterol and triglyceride levels from basal levels during calcium supplementation with calcium glycerophosphate and calcium gluconolactogluconate. The reference of Pak is not relevant to the issue, as Pak is not directed to the use of calcium citrate supplementation for increasing HDL levels in plasma in a postmenopausal woman or for increasing the ratio of HDL to LDL in a postmenopausal woman.

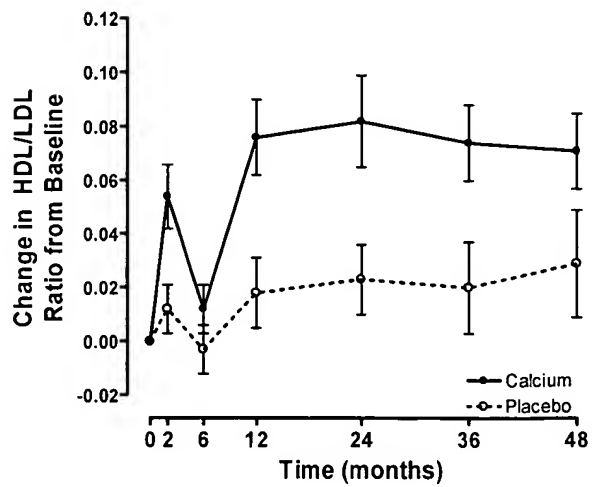
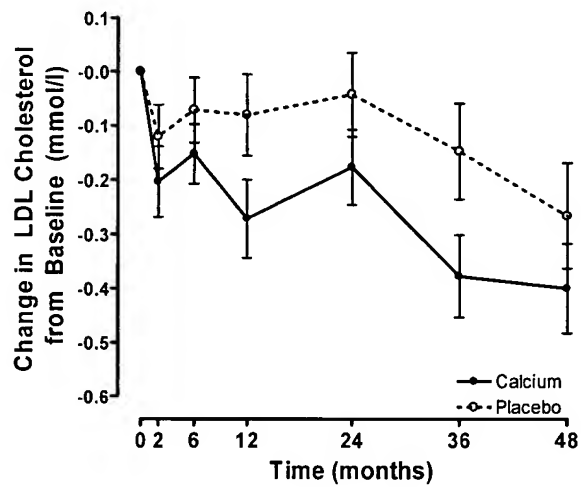
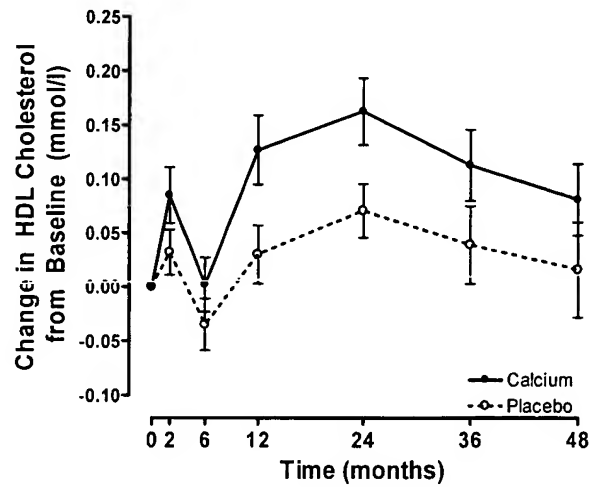
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11. Based on these observations, the cited prior art of Pak, Mitchell, or Nutrition Reviews, either alone or when considered in light of each other, would disclose or suggest the treatments claimed in the pending application.
12. I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Title 18 § 1001 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

August 22, 2005
Date



Ian R. Reid





CURRICULUM VITAE

Ian Reginald Reid

Date of Birth : 23 April 1954

Qualifications: B.Sc. Human Biology, University of Auckland, 1975.
M.B.Ch.B. University of Auckland, 1978.
F.R.A.C.P. 1985
M.D., University of Auckland, 1989.

Honours/Prizes

1971 New Zealand University Junior Scholarship.

1973 Annual prize in Human Biology. }

1974 Senior prize in Human Biology. }

Eric Hector Goodfellow Memorial Prize. }

1976 Ciba-Geigy prize in Pharmacology. }

College of General Practitioners Prize. }

1977 W.W. Phillips Scholarship. }

Douglas Robb Prize. }

H.B. Turbott Prize. }

Senior Scholarship in Medicine. }

Awarded by the
University of
Auckland

1984 Ruth Spencer Memorial Fellowship - awarded by the Auckland Medical Research Foundation

1985 New Zealand Endocrine Society Young Investigator's Prize.
New Zealand Medical Research Council Overseas Fellowship.

1997 Fellowship of the Royal Society of New Zealand

2002 Achievement Award, Medical and Health Sciences Chapter, Alumni Association,
University of Auckland

2003 Elected to Membership of the Association of Osteobiology

Appointments

1978 House Surgeon Wellington Hospital Board.

1979-80 Senior House Officer, Norfolk and Norwich Hospital, Norwich, England.

- 1981 Medical Registrar, Auckland Hospital, (Professor J.D.K. North).
- 1982-83 Registrar Department of Endocrinology, Auckland Hospital, (Professor H.K. Ibbertson).
- 1984-5 Ruth Spencer Medical Research Fellow, Department of Endocrinology, University of Auckland (Professor H.K. Ibbertson).
- 1985-87 Research Fellow, Division of Bone & Mineral Metabolism, Washington University School of Medicine, St Louis, USA, (Professor L.V. Avioli).
- 1987-90 Senior Lecturer in Medicine, University of Auckland, New Zealand.
- 1990-98 Associate Professor in Medicine, University of Auckland.
- 1998- 9 Deputy Head, Department of Medicine, University of Auckland.
- 1998- Professor of Medicine & Endocrinology, University of Auckland.
- 1999- Head, Department of Medicine, University of Auckland.

Invited Lectureships

- 1987 Consensus Development Conference, National Osteoporosis Society of UK, London.
- 1988 Royal North Shore Hospital, Sydney and Repatriation General Hospital, Concord, Australia.
- 1990 Sydney Bone Symposium, Sydney.

Australian and New Zealand Rheumatism Association Biennial Scientific Meeting, Queenstown, New Zealand.
- 1991 American Society for Bone and Mineral Research, Clinical Day, San Diego.

Australia and New Zealand Bone and Mineral Society Annual Scientific Meeting, Sydney.

International Conference on Osteoporosis, Kobe, Japan.

NZ Annual Scientific Meeting, Royal Australasian College of Physicians, Dunedin.
- 1992 Member of Scientific Committee and invited speaker, First International Symposium on Osteoporosis, Beijing.

Endocrine Society Annual Scientific Meeting, San Antonio.

Society for Endocrinology, Metabolism and Diabetes in Southern Africa, Durban.

New Zealand Geriatrics Society and Royal Australasian College of Physicians, Palmerston Nth.

Nutrition Society of New Zealand Conference, Palmerston Nth.

1993 Endocrine Society of Australia Annual Scientific Meeting, Dunedin.

1994 New Zealand Society of Endocrinology Annual Scientific Meeting, Wellington.

New Zealand Association of Natural Family Planning Annual Conference, Nelson.

Mineralised Tissue Society of Western Australia, Royal Perth Hospital and Sir Charles Gairdner Hospital, Perth.

1995 International Satellite Meeting on Steroids and Bone, Queensland.

2nd International Symposium on Paget's Disease of Bone, Sydney.

3rd Annual National Medico-Legal Conference, Wellington.

Combined Australian and New Zealand Rheumatology Associations Scientific Meeting, Auckland

Waikato Hospital, Hamilton, New Zealand.

1996 German Cancer Congress, Berlin.

Royal Adelaide, Queen Elizabeth, and Lyell McEwin Hospitals, Adelaide.

International Congress of Endocrinology, San Francisco.

Annual Scientific Meeting, Endocrine Society of Australia, Sydney, September, 1996.

First World Congress on Calcium and Vitamin D in Human Life (organised by the Food and Agricultural Organisation of the United Nations), Rome.

Australian National Consensus Conference: The Prevention and Management of Osteoporosis, Canberra.

1997 Waikato Hospital, Hamilton, New Zealand.

Annual Scientific Meeting, Royal Australasian College of Physicians, Auckland.

Second International Conference on Osteoporosis, Osaka.

1998 Royal Australasian College of Pathologists Clinical Biochemistry Education Week, Auckland.

International Society for Clinical Densitometry, Hawaii.

Division of Endocrinology, Mayo Clinic, Rochester

Fundacion Argentina de Osteologia, Buenos Aires

Division of Endocrinology, University of Connecticut Health Center, Farmington

Wakefield Hospital, Wellington

Australasian Menopause Society, Annual Scientific Meeting, Auckland

23rd Congresso Brasileiro de Endocrinologia e Metabologia, Sao Paulo

2nd Joint Meeting of the American Society of Bone and Mineral Research and the International Bone and Mineral Society, San Francisco

International Bone Forum, Yokohama

1999 Bones and Health Conference, Dunedin

Royal Australasian College of Surgeons Annual Scientific Meeting, Auckland

Scientific Committee Member, 3rd International Congress on Osteoporosis, Xian, China

Endocrine Society of Australia Workshop, Adelaide

Annual Scientific Meeting, New Zealand Society of Endocrinology

Diet, Health and Bones Symposium, New Zealand Dairy Research Institute

Royal Brisbane Hospital

Glucocorticoid Hormone Action in Rheumatic Autoimmune Diseases, Bad Nauhiem, Germany

Asian Pacific Osteoporosis Foundation, Inaugural Meeting, Hong Kong

- 2000 Plenary Lecturer, World Congress on Osteoporosis, Chicago
- International Scientific Advisory Committee and Plenary Lecturer,
 International Society for Clinical Densitometry, Rio de Janeiro
- Annual Scientific Meeting, Osteoporosis Society of the Philippines, Manila
- Malaysian Osteoporosis Society, Kuala Lumpur
- International Congress of Endocrinology, Sydney
- International Bone Meeting, Hamilton Island, Australia
- 2001 Osteoporosis Society of Singapore, Singapore
- Indonesian Osteoporosis Society, Jakarta
- Annual Scientific Meeting, American Society for Bone and Mineral Research
- Annual Scientific Meeting, Australia and New Zealand Bone and Mineral
 Society
- Royal College of Orthopaedic Surgeons of Thailand, Bangkok
- Taiwan Osteoporosis Society, Taipei
- Osteoporosis New Zealand Bone Densitometry Workshop, Auckland
- Regional Osteoporosis Symposium and Certificate Course, Hong Kong
- Royal Australasian College of Physicians Annual Scientific Meeting,
 Auckland
- College of Pharmacists OMRO Symposium, Wellington
- South Australia Endocrinology Weekend, Clare Valley
- 2002 International Osteoporosis Symposium, Riyadh
- Frontiers of Skeletal Biology Conference, Davos
- International Osteoporosis Symposium, Honolulu
- Endocrine Society Annual Scientific Meeting, San Francisco
- Australian Rheumatology Association and New Zealand Rheumatology
 Association Joint Meeting, Christchurch

Royal Society of New Zealand, Canterbury Branch

Regional Osteoporosis Symposium and Certificate Course, Hong Kong

Functional Foods for Health and Profit, Auckland

NZ Gastroenterological Society , Annual Scientific Meeting, Auckland

8th International Pacific Rim Biotechnology Conference, Auckland

2003

Osteoporosis Symposium, Hong Kong

Annual Scientific Meeting, Royal Australasian College of Physicians, Hobart

Annual Scientific Meeting, Australia and New Zealand Bone and Mineral Society, Coolumb, Australia

Chair, Scientific Program Committee, International Bone and Mineral Society Biennial Meeting, Osaka

NZRA/RACP/IMSANZ Meeting, Rotorua

17th Annual Meeting of Metabolic Bone Disease Society of Colorado, Denver

Malaysian Osteoporosis Society, Penang

Advances in Skeletal Medicine Course, Perth

2004

Australian Society for Geriatric Medicine Annual Scientific Meeting, Perth

Australia and New Zealand Nuclear Medicine Society Annual Scientific Meeting, Wellington

Annual NZ Renal Physicians & Transplant Surgeons Conference, Auckland

Osteoporosis New Zealand Bone Densitometry Workshop, Wellington

VIII World Congress on Clinical Pharmacology and Therapeutics, Brisbane

International Congress on Clinical Nutrition, Brisbane

Sociedad Argentina de Osteoporosis Annual Scientific Meeting, Buenos Aires

Australia and New Zealand Bone and Mineral Society, Annual Scientific Meeting, Sydney

Australasian Society for Parenteral and Enteral Nutrition, Annual Scientific Meeting, Auckland

New Zealand Nutrition Foundation, Annual General Meeting, Auckland

2005 3rd International Conference on Children's Bone Health, Sorrento

Australian Rheumatology Association, Annual Scientific Meeting, Melbourne

Advances in the Molecular Pharmacology and Therapeutics of Bone Disease, Oxford

Osteoporosis Australia Vitamin D and Calcium Forum, Melbourne

Committee Appointments

1988-90 Foundation Council Member, Australia and New Zealand Bone and Mineral Society.

1988-90 Member, Auckland Hospital Research Ethics Committee.

1990-5 Member, Auckland Area Health Board Ethics Committee.

1990 Member, NZ Department of Health Working Party on Osteoporosis.

1991-3 Member, Assessing Panel, Health Research Council of New Zealand.

1992-8 Member, Biomedical Research Committee, Health Research Council of New Zealand.

1993- Member, Scientific Advisory Committee, New Zealand Nutrition Foundation.

1993-4 Vice-President, Australia and New Zealand Bone and Mineral Society.

1993-4 Member, Health Research Council Working Party on Clinical Research.

1993-9 Chairman, Assessing Committees, Health Research Council of New Zealand.

1995-7 President, Australia and New Zealand Bone and Mineral Society

1996-8 Founding Councillor, World Federation on Osteoporosis

- 1996-7 Member, Clinical Research Committee, Health Research Council of New Zealand.
- 1997-9 Member, Data Monitoring Safety Board, Health Research Council of New Zealand.
- 1998 Member, Scientific Program Committee, American Bone and Mineral Society-International Bone and Mineral Society 2nd Joint Meeting
- 1998-2000 Member, Assessing Panel, Marsden Fund, Royal Society of New Zealand
- 1998-2002 Member, Medical and Health Science Fellowship Selection Panel, Royal Society of New Zealand. Chair, 2002.
- 1998- Team Leader, WHO Osteoporosis Initiative
- 1998- Member, Board of Directors, International Bone and Mineral Society
- 1998-2002 Founding Board Member, Osteoporosis New Zealand
- 1999- Founding Councillor and Secretary, Asian Pacific Osteoporosis Foundation
- 1999- Member, Advisory Medical Panel, The Paget Foundation, New York
- 1999-2002 Founding Chairperson, Scientific Committee, Osteoporosis New Zealand
- 1999- Member, National Health Committee on Hormone Replacement Therapy
- 1999-2003 Secretary-Treasurer, International Bone and Mineral Society
- 1999- Member, Committee of Scientific Advisors of the International Osteoporosis Federation
- 2000- Board of Studies, Undergraduate Medicine, University of Auckland
- 2001- Member, Advisory Committee, Centre for Osteoporosis Care and Control, Hong Kong
- 2002- Board Member, Lactopharma Joint Venture
- 2003- Faculty Staffing Committee, Medicine and Health Sciences, University of Auckland
- 2003 Member of the Medicine and Public Health Peer Review Panel, Performance Based Research Fund, NZ Government
- 2003-2005 President-Elect, International Bone and Mineral Society

- 2005 Chair, Australian Medical Council Accreditation Team, University of Queensland
- 2005- President, International Bone and Mineral Society
- 2005-6 Member of the Medicine and Public Health Peer Review Panel, Performance Based Research Fund, NZ Government

Peer Review Activities

Editorial Board Memberships

Journal of Clinical Endocrinology and Metabolism

Osteoporosis International

Bone

New Ethicals Patient Management

New Zealand Medical Journal (1998-2003)

BoneKEy

Journal of Clinical Densitometry

Consultant Editor, European Journal of Experimental Musculoskeletal Research.

Referee for: American Journal of Medicine, American Journal of Obstetrics and Gynecology, American Journal of Physiology, Archives of Oral Biology, Archives of Dermatology, Australia and New Zealand Journal of Medicine, Bone, British Medical Journal, Calcified Tissue International, Clinical Endocrinology (Oxford), Diabetes Care, Diabetic Medicine, Drugs, Endocrine Practice, Endocrinology, European Journal of Clinical Investigation, European Journal of Endocrinology, Journal of the American Medical Association, Journal of Bone and Mineral Research, Journal of Clinical Endocrinology and Metabolism, Journal of Internal Medicine, Journal of Laboratory and Clinical Medicine, Journal of Rheumatology, Lancet, Maturitas, New Zealand Medical Journal, Osteoporosis International, Science, World Journal of Surgery, and for research funding organisations in New Zealand and Australia.

Current Research Funding

Programme Grant from the Health Research Council of New Zealand

Foundation of Research, Science and Technology

Fonterra Ltd

Commercial contracts with pharmaceutical companies

Patents

- 1 Reid IR, Martin TJ. Effects of leukemia inhibitory factor on bone.
- 2 Cornish J, Reid IR, Martin TJ. Osteostatin - bone growth effects
- 3 Reid IR, Cornish J, Cooper GJS. Amylin - Therapeutic Method and Compounds of use Therein
PCT application PCT/NZ95/00062 based on NZ filing 260995 13 July 1994
Granted: USA Patent Number: 5922677
4. Reid IR, Cornish J, Cooper GJS, Coy DH. Treatment of Bone Disorders with Adrenomedullin
USA patent application 08/634 562 - filed in USA on 18 April 1996
Completed: PCT/US97/06365
Granted: USA Patent Number: 5,888,963
Pending: Australian Patent Number: 724775
Pending: Canada Application Number: 2,252,228
Pending: Europe: Application number: 97918682.2
Pending: Japan: Application number: 537359/97
5. Cornish J, Reid IR, Cooper GJS
Treatment of Bone Disorders with Adrenomedullin or Adrenomedullin Agonists
Filed 30 March 1999
PCT application PCT/NZ00/00038 Completed
Provisional USA Patent Number: 09/280,501
Granted: USA Patent Number 6,440,421 B1, Aug 27, 2002
Canada Pending: Number Unknown
Australia Pending: 33384/00
Europe Pending: 0911518.9
Japan Pending: 2000-608047
6. Reid IR, Cornish J, Cooper, GJS, Coy DH
Amylin Fragments - Compounds and uses thereof (1-8) in Bone Disorders
USA patent application - filed in USA on 18 September 1997
Pending: USA Patent Number: 08/933,452
Granted: USA Patent Number 6,821,954 B2, Nov 23, 2004
PCT: W09916406
Pending in Australia, Japan, Canada and Europe
7. Reid IR, Cornish J, Cooper GJS. Amylin and Adrenomedullin - Effects on Chondrocytes and Cartilage
PCT filed on 26 September 1997
Completed: PCT/NZ98/00145
Completed Provisional NZ Patent Number: 328853
Issued: USA Patent No. 6,869,926 B1, 22 March 2005.
Pending European Patent Number: 98946738.6
Pending Japanese Patent Number: 513546/2000

8. Cornish J, Reid IR, Palmano KP, Haggarty NW.
Milk protein antiresorber.
NZ Provisional lodged 2001
- 9 Reid IR . A method of administering calcium citrate.
US Provisional application lodged November, 2001.
- 10 Cornish J, Reid I R, Palmano K, Haggarty N W. Lactoferrin.
New Zealand Provisional patent application NZ518121 filed 3 April, 2002; US application 10/205,960 filed 26 July, 2002 and PCT application NZ02/00137 filed 29th July, 2002.
- 11 Reid I R, Cornish J, Naot D, Grey A B. LDL: Receptor related proteins 1 and 2.
US application 60/380,227 filed May 13, 2002, incorporated into PCT application NZ03/00087 filed 13 May, 2003.
- 12 Cornish J, Reid I R, Naot D, Palmano K and Grey A B. LDL Receptor related proteins 1 and 2 and treatment of bone and cartilage conditions. US provisional application US 60/463,419 of 16 April, 2003, incorporated into PCT application NZ03/00087 filed 13 May, 2003.
- 13 Cornish J, Reid IR, Cooper GJS, Buchanan CM. Preptin Methods of Use.
Filed 1 August 2002
Provisional USA Patent Number: 08987-007P01
14. Cornish J, Reid IR, Jian-ming Lin
Effect of fibroblast growth factor-8a (FGF-8a) on osteoblast and osteoclast proliferation, differentiation and function
US Provisional application lodged 4 October, 2002

Publications

Total Number: 291 (excluding abstracts)

Refereed Journal Articles

1. Eade MN, Reid IR, Quinn JP. Intestinal blood flow in the dog measured by indicator fractionation without tissue sampling. **Clin Exp Pharmacol Physiol** 1977; 4: 235-245.
2. Reid IR. The use of iatrogenic hypothyroidism in the treatment of intractable angina. **NZ Med J** 1983; 96: 285-286.
3. Reid IR, Wallis WE. The chronic and severe forms of eosinophilic meningitis. **Aust NZ J Med** 1984; 14: 163-165.
4. Baker JR, Reid IR, Holdaway IM. Serum fructosamine in patients with diabetes mellitus. **NZ J Med** 1985; 98: 532-5.
5. Reid IR. Transient hypercalcaemia following aspirin overdose. **Aust NZ J Med** 1985; 15: 364.
6. Reid IR, France JT, Pybus J, Ibbertson HK. Low plasma testosterone levels in glucocorticoid-treated male asthmatics. **BMJ** 1985; 291: 574.
7. Reid IR, Gallagher DJA, Bosworth J. Prophylaxis against vitamin D deficiency in the elderly by regular sunlight exposure. **Age Ageing** 1986; 15: 35-40.
8. Reid IR, Chapman GE, Fraser TRC, Davies AD, Surus AS, Meyer J, Huq NL, Ibbertson HK. Low serum osteocalcin levels in glucocorticoid-treated asthmatics. **J Clin Endocrinol Metab** 1986; 62: 379-383.
9. Reid IR, Katz J, Ibbertson HK, Gray DH. The effects of hydrocortisone, parathyroid hormone and the bisphosphonate APD on bone resorption in neonatal mouse calvaria. **Calcif Tissue Int** 1986; 38: 38-43.
10. Reid IR, Ibbertson HK. Calcium supplements in the prevention of steroid-induced osteoporosis. **Am J Clin Nutr** 1986; 44: 287-290.
11. Reid IR, Schooler BA, Hannon S, Ibbertson HK. The acute biochemical effects of four proprietary calcium supplements. **Aust NZ J Med** 1986; 16: 193-197.
12. Reid IR, Pybus J, Lim TMT, Hannon S, Ibbertson HK. The assessment of intestinal calcium absorption using stable strontium. **Calcif Tissue Int** 1986; 38: 303-305.
13. Reid IR, Mackie M, Ibbertson HK. Bone mineral content in Polynesian and white New Zealand women. **BMJ** 1986; 292: 1547-1548.

14. Reid IR, Civitelli R, Westbrook SL, Avioli LV, Hruska KA. Cytoplasmic pH regulation in canine renal proximal tubule cells. **Kidney Int** 1987; 31: 1113-1120.
15. Civitelli R, Reid IR, Halstead LR, Avioli LV, Hruska KA. Membrane potential and cation content of osteoblast-like cells (UMR 106) assessed by fluorescent dyes. **J Cell Physiol** 1987; 131: 434-441.
16. Reid IR, Teitelbaum SL, Dusso A, Whyte MP. Hypercalcemic hyperparathyroidism complicating oncogenic osteomalacia: effect of successful tumor resection on mineral homeostasis. **Am J Med** 1987; 83: 350-354.
17. Reid IR, Civitelli R, Halstead LR, Avioli LV, Hruska KA. Parathyroid hormone acutely elevates intracellular calcium in osteoblast-like cells. **Am J Physiol** 1987; 253: E45-E51.
18. Reid IR, Ibbertson HK. Evidence for decreased tubular reabsorption of calcium in glucocorticoid-treated asthmatics. **Hormone Res** 1987; 27: 200-204.
19. Reid IR, King AR, Alexander CJ, Ibbertson HK. Prevention of steroid-induced osteoporosis with (3-amino-1-hydroxypropylidene)-1,1-bisphosphonate (APD). **Lancet** 1988; i: 143-146.
20. Reid IR, Civitelli R, Avioli LV, Hruska KA. Parathyroid hormone depresses cytosolic pH and DNA synthesis in osteoblast-like cells. **Am J Physiol** 1988; 255: E9-E15.
21. Sugimoto T, Ritter C, Reid IR, Morrissey J, Slatopolsky E. Effect of 1,25(OH)₂D₃ on cytosolic calcium in dispersed parathyroid cells. **Kidney Int** 1988; 33: 850-854.
22. Civitelli R, Reid IR, Westbrook S, Avioli LV, Hruska KA. Parathyroid hormone elevates inositol polyphosphates and diacylglycerol in a rat osteoblast-like cell line. **Am J Physiol** 1988; 255: E660-E667.
23. Levy J, Reid IR, Halstead L, Avioli LV. Abnormal cell calcium concentrations in cultured bone cells obtained from femurs of obese and non-insulin-dependent diabetic rats. **Calcif Tissue Int** 1989; 44: 131-137.
24. Reid IR. Pathogenesis and treatment of steroid osteoporosis. **Clin Endocrinol** 1989; 30: 83-103.
25. Hardy DC, Murphy WA, Siegel BA, Reid IR, Whyte MP. X-linked hypophosphatemia in adults, prevalence of skeletal radiographic and scintigraphic features. **Radiology** 1989; 171: 403-414.
26. Reid IR, Gluckman PD, Ibbertson HK. Insulin-like growth factor 1 and bone turnover in glucocorticoid-treated and control subjects. **Clin Endocrinol** 1989; 30: 347-353.
27. Suzuki Y, Hruska KA, Reid IR, Alvarez UH, Avioli LV. Characterization of

- phospholipase C activity of the plasma membrane and cytosol of an osteoblast-like cell line. **Am J Med Sci** 1989; 297: 135-144.
28. Fenton AJ, King AR, Reid IR. Hypercalcemia and squamous cell carcinoma complicating chronic osteomyelitis. **Aust NZ J Med** 1989; 19: 358-361.
 29. Reid IR, Hardy DC, Murphy WA, Teitelbaum SL, Bergfeld MA, Whyte MP. X-linked hypophosphataemia: a clinical, biochemical, and histopathologic assessment of morbidity in adults. **Medicine (Baltimore)** 1989; 68: 336-352.
 30. Reid IR, Lowe C, Cornish J, Skinner SJM, Hilton DJ, Willson TA, Gearing DP, Martin TJ. Leukemia inhibitory factor, a novel bone-active cytokine. **Endocrinology** 1990; 126: 1416-1420.
 31. Reid IR, Lowe C, Cornish J, Gray DH, Skinner SJM. Adenylate cyclase blockers dissociate PTH-stimulated bone resorption from cAMP production. **Am J Physiol** 1990; 258: E708 - E714.
 32. Reid IR, Schooler BA, Stewart AW. Prevention of glucocorticoid induced osteoporosis. **J Bone Mineral Res** 1990; 5: 619-623.
 33. Reid IR, Cullen S, Schooler BA, Livingston NE, Evans MC. Calcitropic hormone levels in Polynesians, evidence against their role in inter-racial differences in bone mass. **J Clin Endocrinol Metab** 1990; 70: 1452 - 1456.
 34. Reid IR, Heap SW. Determinants of vertebral mineral density in patients receiving chronic glucocorticoid therapy. **Arch Int Med** 1990; 150: 2545-2548.
 35. Orr-Walker B, Harris R, Holdaway IM, Foote G, Reid IR. High peripheral and axial bone densities in a postmenopausal woman with untreated hypoparathyroidism. **Postgrad Med J** 1990; 66: 1061-1063.
 36. Reid IR, Murphy WA, Hardy DC, Teitelbaum SL, Bergfeld MA, Whyte MP. X-linked hypophosphatemia: skeletal mass in adults assessed by histomorphometry, computed tomography and absorptiometry. **Am J Med** 1991; 90: 63-69.
 37. Reid IR, Evans MC, Ames R, Wattie DJ. The influence of osteophytes and aortic calcification on spinal mineral density in postmenopausal women. **J Clin Endocrinol Metab** 1991; 72: 1372-1374.
 38. Cundy T, Evans M, Roberts H, Wattie D, Ames R, Reid I. Reduced bone density in women using depot medroxyprogesterone acetate for contraception. **BMJ** 1991; 303: 13-16.
 39. Lowe C, Cornish J, Martin TJ, Reid IR. Effects of leukemia inhibitory factor on bone resorption and DNA synthesis in neonatal mouse calvaria. **Calcif Tissue Int** 1991; 49:394-397

40. Lowe C, Cornish J, Callon K, Martin TJ, Reid IR. Regulation of osteoblast proliferation by leukaemia inhibitory factor. **J Bone Mineral Res** 1991; 6:1277-1283.
41. Lowe C, Gray DH, Reid IR. Serum blocks the osteolytic effect of cortisol in neonatal mouse calvaria. **Calcif Tissue Int** 1992; 50: 189-192.
42. Reid IR, Evans MC, Wattie DJ, Ames R, Cundy TF. Bone mineral density of the proximal femur and lumbar spine in glucocorticoid-treated asthmatic patients. **Osteoporosis Int** 1992; 2:103-105.
43. Manning PJ, Evans MC, Reid IR. Normal bone mineral density following cure of Cushing's syndrome. **Clin Endocrinol** 1992; 36:229-234.
44. Reid IR, Ames R, Evans MC, Sharpe S, Gamble G, France JT, Lim TMT, Cundy TF. Determinants of total body and regional bone mineral density in normal postmenopausal women- a key role for fat mass. **J Clin Endocrinol Metab** 1992; 75:45-51.
45. Reid IR, Plank LD, Evans MC. Fat mass is an important determinant of whole body bone density in premenopausal women but not in men. **J Clin Endocrinol Metab** 1992; 75:779-782.
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